

FIG. 1 Prior Art

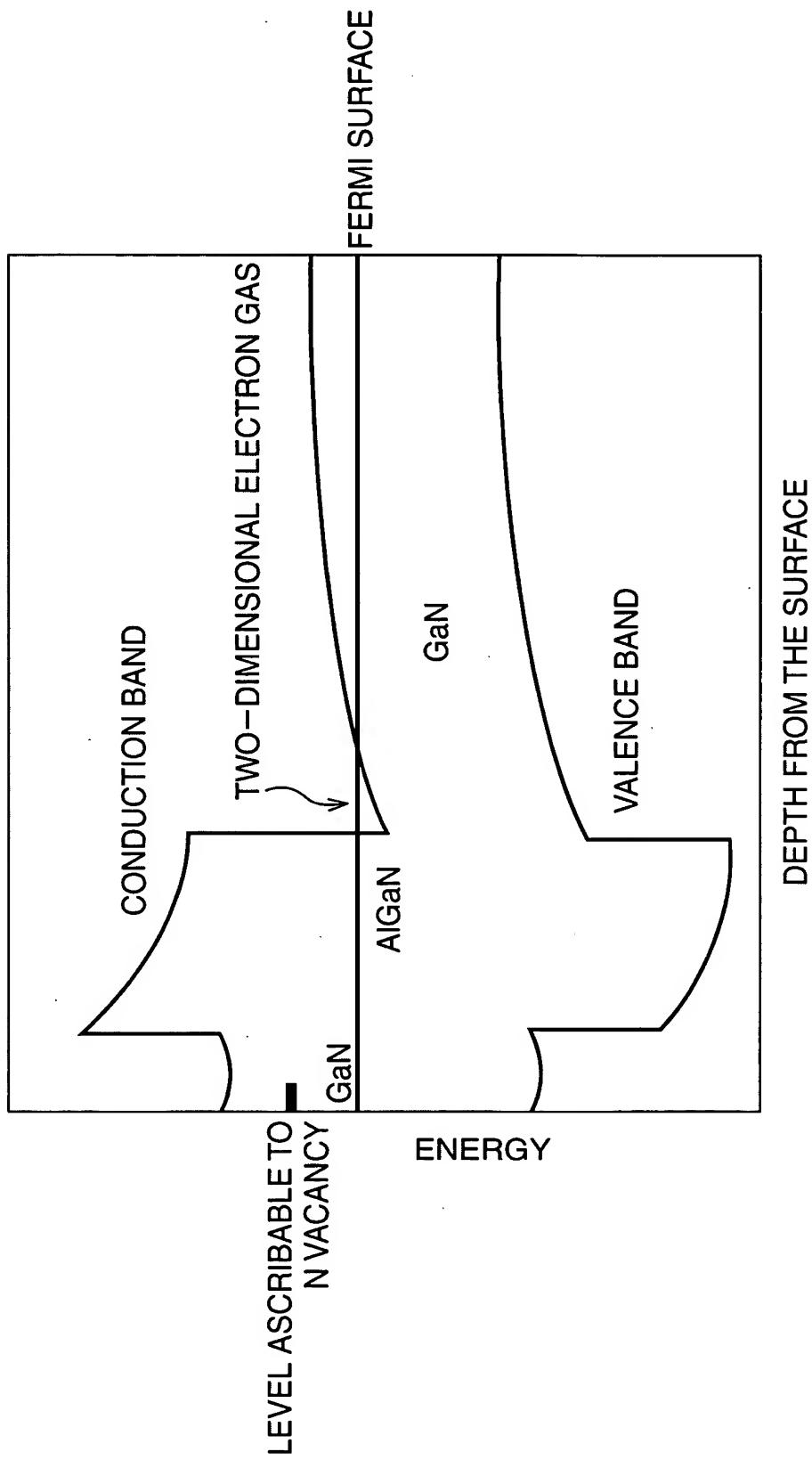


FIG. 2

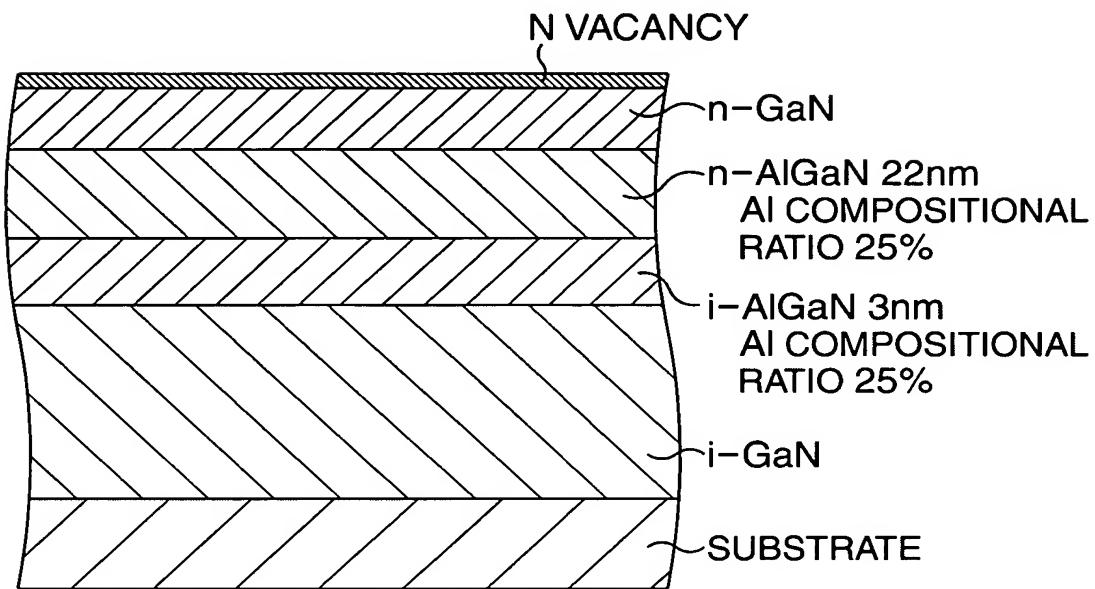


FIG. 3

SURFACE ROUGHNESS (nm)= 2.15^*x^*d (nm)

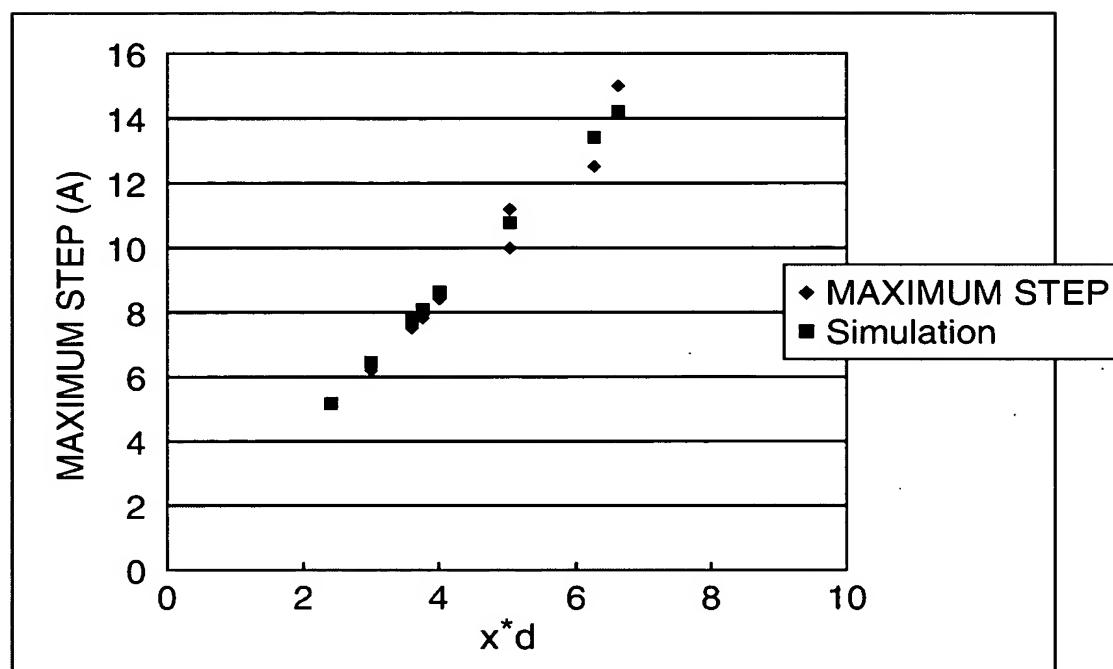


FIG. 4

REVERSE GATE LEAKAGE (μ A/mm)
(@ $V_g = -5V$) = $1.8E-6 \cdot 10^{(2.15 \cdot x^*d^*(nm))}$

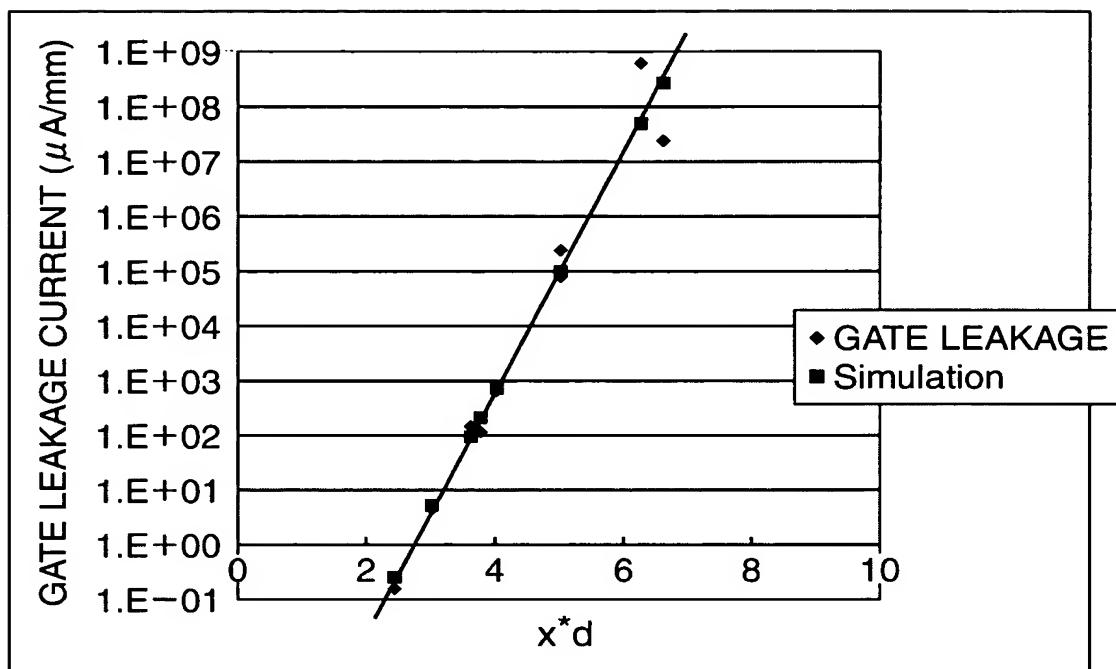


FIG. 5

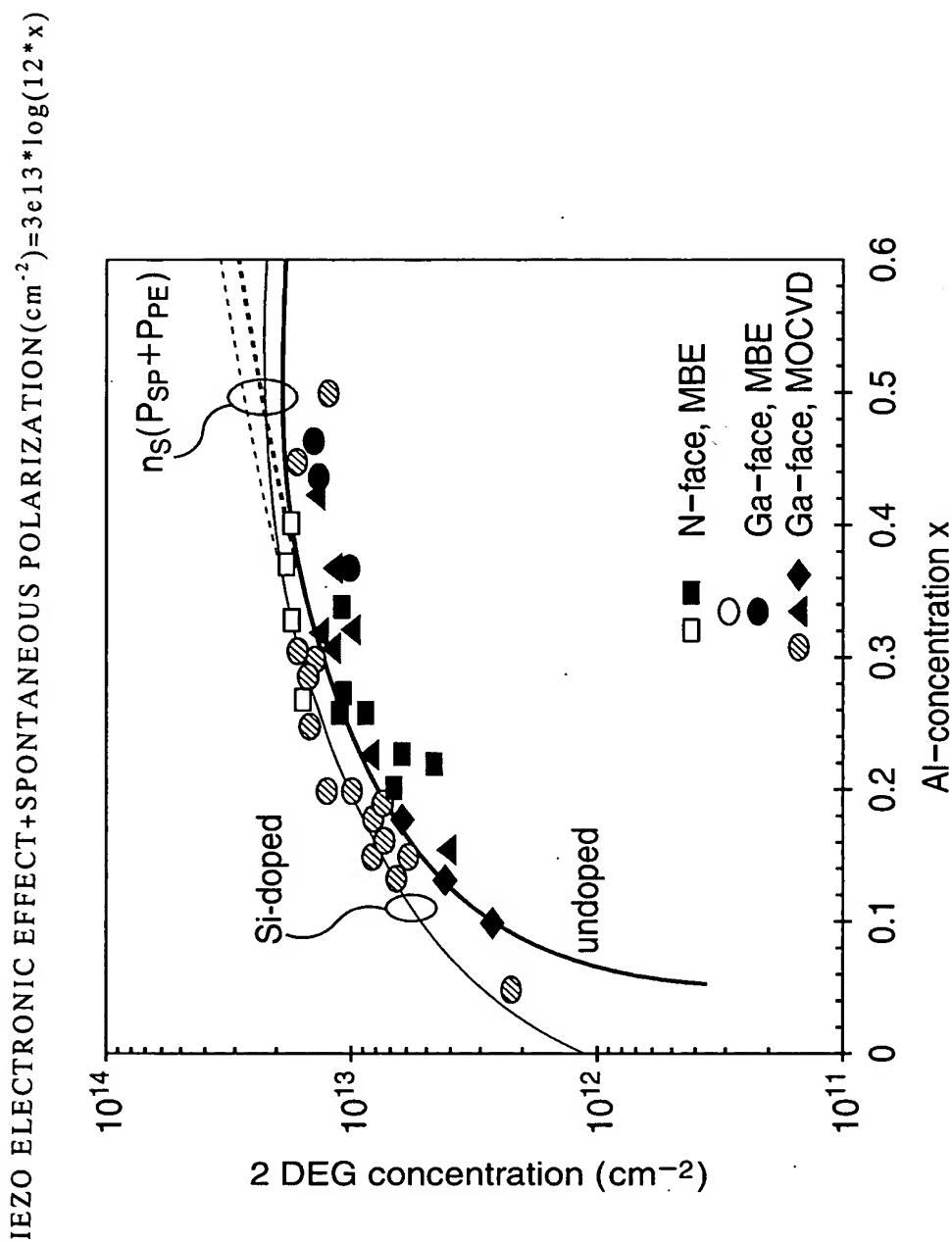


FIG. 6

SURFACE TRAP DENSITY (cm^{-2}) = $2.7 \times 10^{12} \times (0.05 \times x^*d^* \text{ (nm)})$

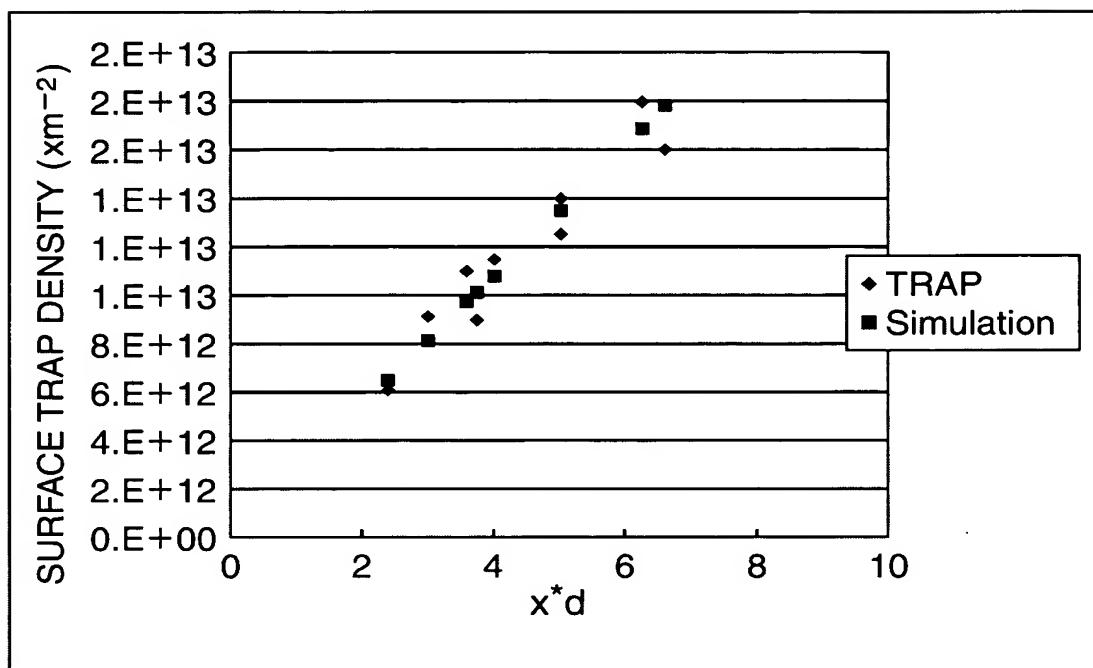


FIG. 7

CURRENT COLLAPSE : $1e-6^*Nd^*d$ (nm)/4- $2.7e12^*$ (0.05^*x^*d *(nm))

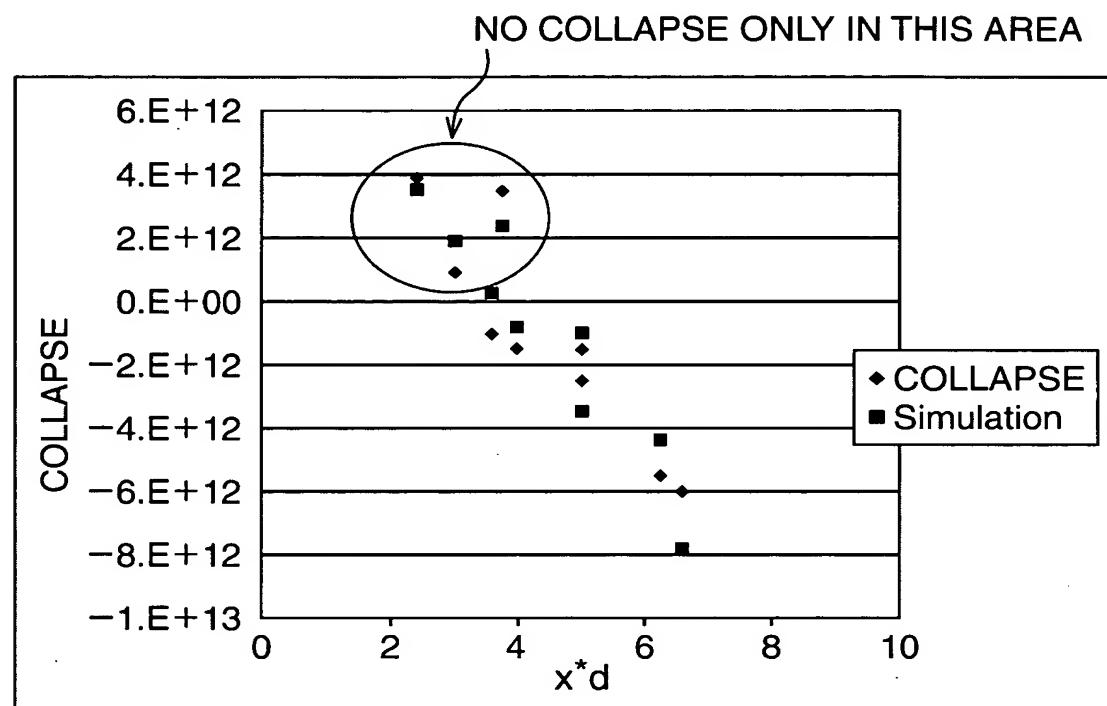


FIG. 8

■ AREA OF THE PRESENT INVENTION

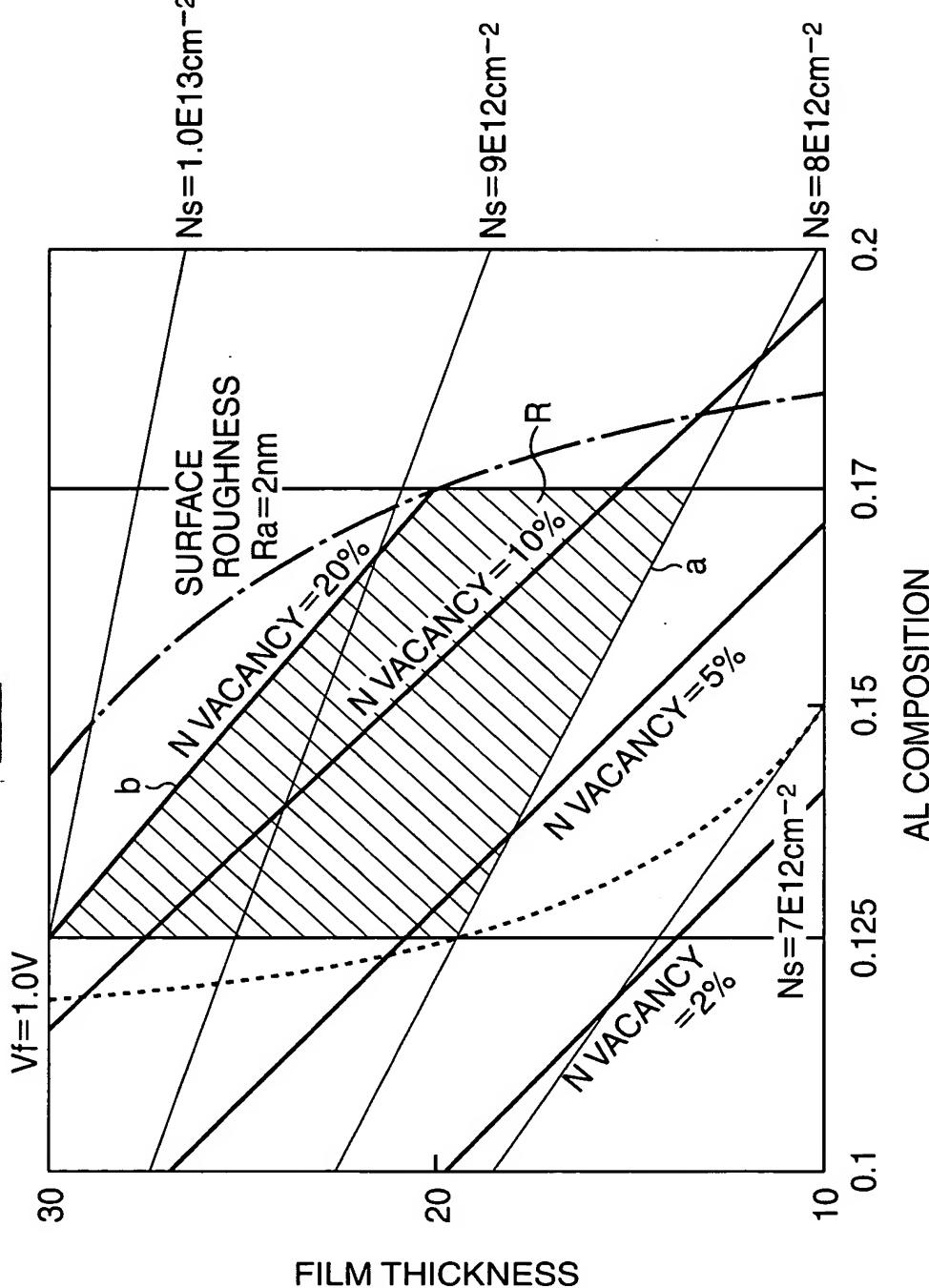


FIG. 9

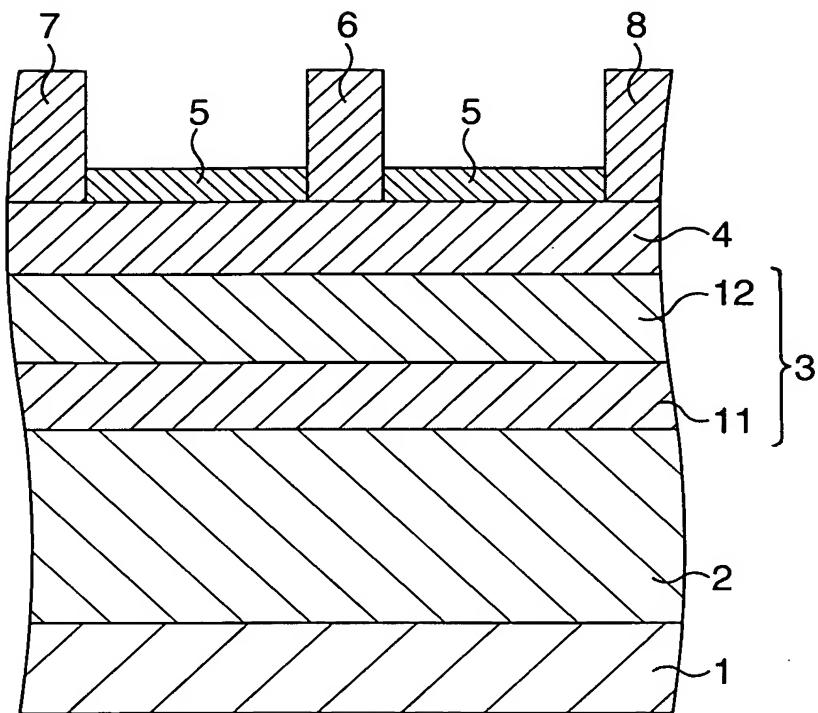


FIG. 10

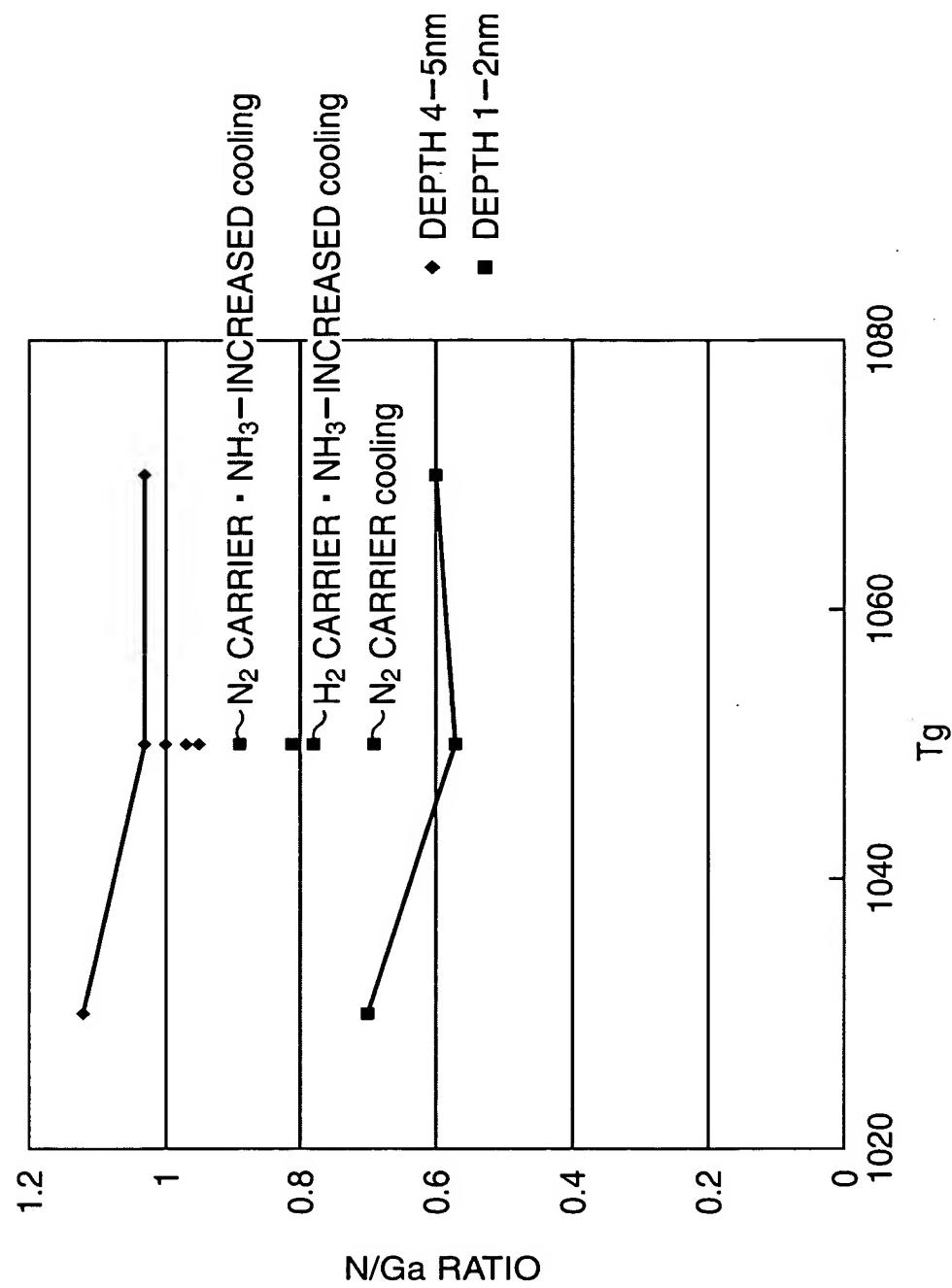


FIG. 11 Prior Art

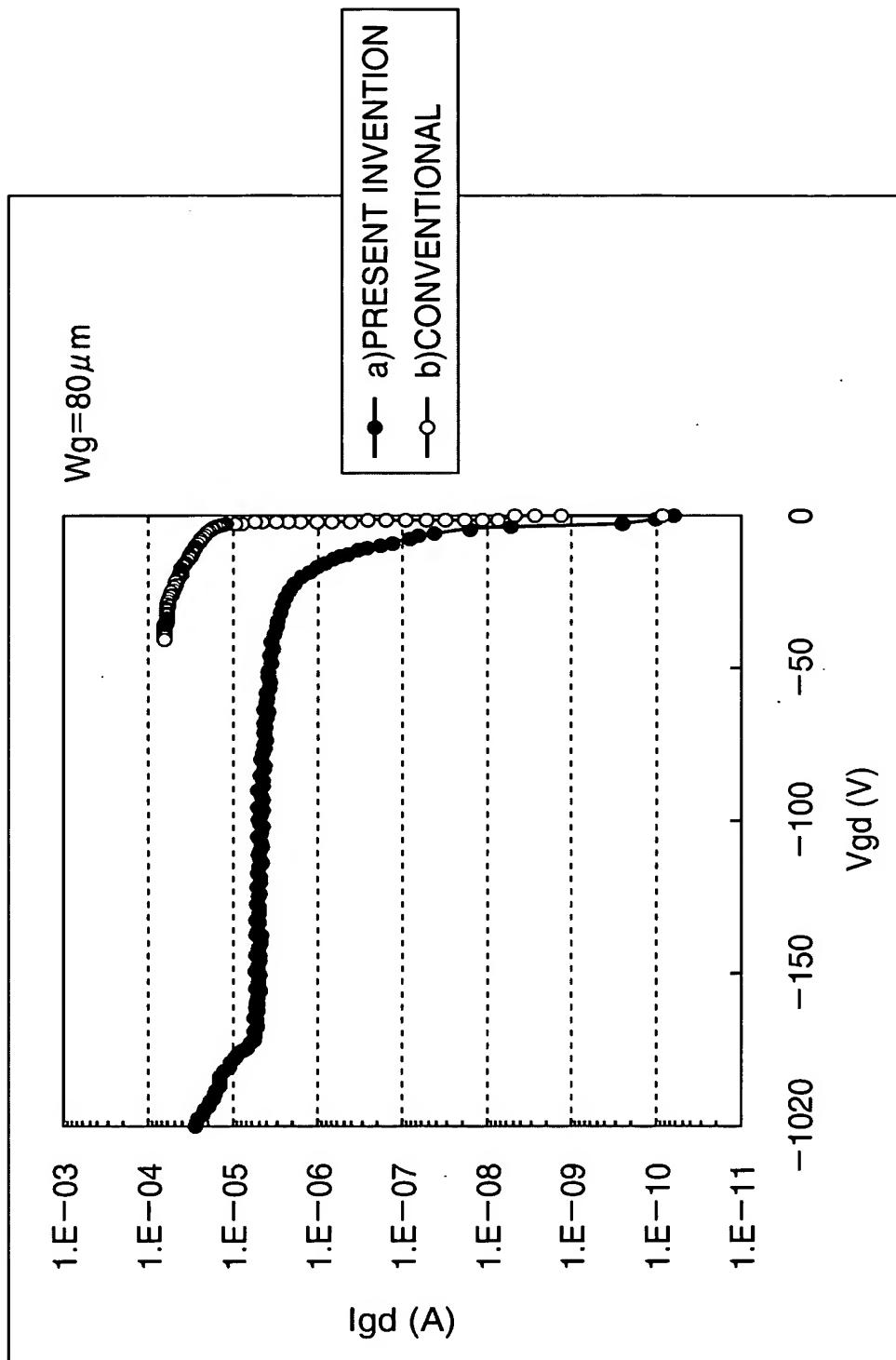


FIG. 12 Prior Art

